

NuMI Ground Fault Update

The cause of the hard ground fault has been found.

A support foot on the horn came loose. There are several reasons to believe this was the hard ground fault:

The short went away when the module was moved to the hot cell.

There is scorching in the cell (10" move when taking out).

Replacement foot has been installed and safety wired in place. (Rust not necessarily bad)

Horn and stripline block are in chase and Hipot ok.

There was a leak in the RAW system and we are fabricating a replacement line since the original line bound up on removal.

Scenario for resumption of beam:

1. Hipot entire system except for P.S-Today
2. Survey Horn-Tuesday morning
3. Install water line-Tuesday

4. Run water system and check for leaks with camera (one T block out)-Tues
5. Put T block in and establish some airflow, pulse horn and do a thermal scan, then pulse overnight at once/minute.Tuesday eve
6. Put shield wall, and R blocks back in place and establish airflow. Take out crane electronics.
7. Beam !! (Wednesday evening if all goes well)
8. Redo current spare stripline block with stainless steel block.
9. Fabricate at least one more stainless block.
10. Take a global look at spare situation e.g. water lines.

Postscript: Beam was reestablished
Wednesday evening at 8:28 P.M.